

SIGMA XI QUARTERLY

Vol. XIII

SEPTEMBER, 1925

No. 3



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OFFICERS OF SIGMA XI

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Secretary.....	EDWARD ELLERY Union College, Schenectady, N. Y.
Treasurer.....	GEORGE B. PEGRAM Columbia University, New York City

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CLARENCE E. MCCLUNG.....	University of Pennsylvania, Philadelphia, Pa. <i>Term expires January, 1927</i>
VERNON KELLOGG.....	National Research Council, Washington, D. C. <i>Term expires January, 1928</i>
HENRY B. WARD.....	University of Illinois, Ill. <i>Term expires January, 1929</i>
WILLIAM F. DURAND.....	Stanford University, California <i>Term expires January, 1930</i>
C. E. DAVIES.....	29 West 39th St., New York City, Alumni Representative <i>Term expires January, 1930</i>

ALUMNI COMMITTEE

C. E. DAVIES.....	Rensselaer '14, New York
FREDERICK B. UTLEY.....	Yale '03, Pittsburgh, Pa.
DAVID STARR JORDAN.....	Cornell '87, Stanford University
THOMAS W. BARRALLY.....	Union '87, Tonawanda, N. Y.
PAUL B. MAGNUSON.....	Penn. '08, Chicago

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1915
Chas. C. Case
5-9-28

SIGMA XI QUARTERLY

EDITORIAL COMMITTEE

FLOYD KARKER RICHTMYER
EDWIN EMMY SLOSSON

HENRY BALDWIN WARD
EDWARD ELLERY

VOL. XIII

SEPTEMBER, 1925

No. 3

THE CONVENTION

The Annual Convention of our society will be held in Kansas City, Tuesday, December 29. The program of the meetings is as follows:

2:30 P.M. Business Session

6:15 P.M. Convention Dinner

8:30 P.M. Public meeting, with annual address.

Details of the program will be given in the December number of the Quarterly and in the preliminary and final announcements of the meetings of the American Association for the Advancement of Science.

We are to have the honor at this meeting of an address by the Secretary of Agriculture, William M. Jardine, this being the fourth annual joint meeting of Sigma Xi and the Association. The lectures at the three preceding conventions have been as follows:

1922, Boston, President Farrand of Cornell University, on
"The Nation and Its Health."

1923, Cincinnati, Dr. W. R. Whitney, Director of Research,
General Electric Company, on "The Vacuum, There's
Something in It."

1924, Washington, Dr. Frederick F. Russell, Director of the
International Health Board, on "War on Disease,
Particularly Yellow Fever and Malaria."

Announcement of Secretary Jardine's topic will be made later.

The business session of the Convention will have as usual many important matters to consider, among them being the following:

Shall the Sigma Xi keys be obtainable only through the National Secretary's office?

This question was discussed at the 1924 Convention, and the secre-

tary was instructed to obtain chapters' opinions on the matter. Of the twenty chapters who sent in replies to the secretary's inquiry, nineteen favored the proposal to appoint an authorized jeweler who should issue keys only on an order from the national secretary, just as now associate emblems are obtainable only on such order.

Shall the annual assessment on the membership be increased?

This question was raised at the 1924 Convention and the Executive Committee was asked by that convention to prepare definite recommendations for the consideration of the 1925 Convention. At the May meeting of the Executive Committee (as reported in the Quarterly for June) the following minute was adopted:

**MEMORANDUM OF REPORT FROM EXECUTIVE COMMITTEE TO 1925 CONVENTION
ON THE SUBJECT OF INCREASE OF ANNUAL ASSESSMENT**

The following report on the subject of the increase of the annual assessment upon the chapters was adopted and ordered transmitted to the 1925 Convention, in response to the request of the 1924 Convention that the Executive Committee consider and report to the 1925 Convention on the subject of an increase in the annual assessment upon the chapters.

The Executive Committee has given careful consideration to this subject and finds that properly to support the activities of the general organization of Sigma Xi, there will be required a larger budget of expenditures than has been possible heretofore. In particular, the work of the secretary's office has, with the growth of the Society and membership and number of chapters, greatly increased in the past few years. While this increase has been coming on, the Society has been taking a larger and larger fraction of the valuable time of its secretary and has been enjoying the generous courtesies of Union College as to office space, office equipment and other assistance. A society of the strength of Sigma Xi cannot afford to continue to have its work carried on this basis. It is clear that better equipment for caring for the records and the regular stated correspondence and other work of the secretary's office must be provided and furthermore, as brought out by resolutions already adopted by the Executive Committee, it will be necessary at the earliest possible moment to employ the paid secretarial services of at least a part time man. The opportunity at the present time of furthering the objects of Sigma Xi is so unusual a one that the Executive Committee has already revised the budget for the present year by the addition of \$1000 to the allowance for the secretary's office.

To meet the needs of the budget, that will be necessary to continue the work of the Society, the Executive Committee is unanimously of the opinion that the annual assessment upon the chapters should be increased from \$.75 to \$1.00 beginning with the 1926 assessment. In this opinion the Executive Committee appears to be supported already by a number of the chapters, since in response to the letter sent out from the secretary's office asking for suggestions as to improvements in the Quarterly and opinion as to the furnishing of all keys and

badges through a central office, several chapters volunteered the suggestion that the annual assessment be raised to \$1.00.

May 5, 1925.

All of the national officers, intimately acquainted as they are with the opportunities open to the society and the obstacles to progress caused by inadequate financial resources, think that the time has come for a change in the financial policy of the organization. Any Sigma Xi member would have the same opinion if he knew the situation as intimately as the officers do. It is expected that the Convention will take action to give to the officers more funds and to make possible a more effective and more useful organization.

* * * * *

Chapters are urged to appoint delegates now. The national officers hope that every one of the forty-three chapters of the society will have a representative at the Convention, so that whatever action is taken will be reported directly to the chapters with the ground for it as brought out in the debate on the floor.

* * * * *

President Richtmyer announces the appointment of President Charles S. Howe of the Case School of Applied Science as chairman of the nominating committee to report at the Convention. Elections are to be made of president, secretary, treasurer, one member of the executive committee to serve five years, and one member of the alumni committee to serve five years.

* * * * *

We are glad to acknowledge in this number contributions to the Alumni Fund received since the last list was published in the June Quarterly. We are especially grateful to the Sigma Xi Club at the University of Oklahoma for its generous contribution of \$25. We take this occasion to express to all contributors and to the Oklahoma Club the appreciation of the national officers and of the alumni who are interested in this important movement in the society.

CHAPTER REPORTS

CHICAGO

The University of Chicago Chapter of Sigma Xi has held four meetings during the college year 1924-25. On November 25, 1924, Prof. A. J. Carlson addressed the chapter on "Recent Advances in Physiology." Prof. W. A. Noyes, Jr., spoke on "Atom Building and the Photography of Atomic Collisions" at the meeting held on Feb. 17, 1925. Prof. A. H. Compton gave the address at the closing meeting of the year on May 19, 1925, on "Recent Experiments on the Nature of Light and X-Rays."

A fourth meeting was held August 18, 1925. Professor Forest R. Moulton, of the Department of Astronomy, delivered an address entitled "On the Origin and Evolution of the Earth."

One hundred and fifty-two new members and associates were initiated in the course of the year, of whom one hundred and thirteen were elected as members and thirty-nine as associates.

New officers for the next two years are as follows:

<i>President</i>	PROF. HENRY G. GALE
<i>Vice-President</i>	PROF. BASIL C. H. HARVEY
<i>Secretary-Treasurer</i>	PROF. PAUL MACCLINTOCK

ELECTED TO MEMBERSHIP, NOVEMBER 25, 1924

FACULTY

HANS GOTLIEB BILLROTH, Ph.D. (Univ. of Munich) 1919	<i>Chemistry</i>
RAYMOND JULIUS BRECKPOT (Dr. EsSciences (Louvaine) 1923	<i>Chemistry</i>
WILLIAM HOY TALIAFERRO, A.B. (Univ. of Virginia) 1915, Ph.D. (Johns Hopkins Univ.) 1918	<i>Bacteriology</i>
LOUIS LEON THURSTONE, M.E. (Cornell) 1912, Ph.D. (Chicago) 1917	<i>Psychology</i>

ALUMNI

LOUIS JACOB BIRCHER, A.B. (Missouri) 1915, Ph.D. (Chicago) 1924	<i>Chemistry</i>
FRANCIS HENRY THURBER, A.B. (Lawrence) 1913, S.M. (Nebraska) 1915	<i>Chemistry</i>

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LAWRENCE FERDINAND ATHY, S.B. (Dennison)	1919	Geology
HENRY NICHOLAS BEETS, S.B. (Chicago)	1920	Physics
WALTER BARTKY, S.B. (Chicago)	1923	Astronomy
PAUL JEAN BRESLICH, S.B. (Chicago)	1924	Anatomy
JAMES GREENLEAF BROWN, S.B. (Chicago)	1916, S.M. (Ibid.)	1917 Botany
WILL TROUT CHAMBERS, A.B. (Ind. State Nor.)	1921, S.M. (Chicago)	1924 Geography
CHING YUEH CHANG, S.B. (Chicago)	1923	Botany
HSI CHUN CHANG, S.B. (Chicago)	1922	Physiology
ROLLO OTHWELL EARL, A.B. (Queen's Univ.)	1914, S.M. (Chicago)	1923 Botany
JAMES IRVING FARRELL, S.B. (Chicago)	1924	Physiology
ARTHUR NEWTON FERGUSON, S.B. (Chicago)	1923	Anatomy
EMMA ALBERTINE MATHILDE FLEER, S.B. (Chicago)	1924	Physiology
PERCIVAL TAYLOR GATES, S.B. (Chicago)	1922	Botany
GERALD WATSON HAMILTON, S.B. (Chicago)	1921	Physiology
RUTH HERRICK, S.B. (Chicago)	1918	Anatomy
PERRY YATES JACKSON, S.B. (WakeForest Col.)	1919, S.M. (Chicago)	1924 Chemistry
EDWIN PRATT JORDAN, S.B. (Chicago)	1923	Bacteriology
FREDERIC THEODORE JUNG, S.B. (Wisconsin)	1919	Physiology
ISRAEL MORRIS LEVINE, S.B. (Chicago)	1923, S.M. (Illinois)	1923 Chemistry
THEODORE AUGUSTUS L. LINK, S.B. (Chicago)	1918	Geology
RICHARD HAYES MEAGHER, Ph.B. (Yale)	1921	Anatomy
GORDON PHELPS MERRIAM, S.B. (Dartmouth)	1921	Geography
MATTIE BETH MORGAN, A.B. (Texas)	1914, S.M. (Chicago)	1916 Botany
FRANK COBB McDONALD, S.B. (Central Mo. St. Teachers Coll.)	1920, S.M. (Chicago)	1922 Physics
ANNIE NORRINGTON, S.B. (Manitoba)	1917	Botany
HIRO OHASHI (Japan Women's Univ.)	1909	Botany
IRWIN ISAAC RABINOV, A.B. (Clark Univ.)	1922, S.M. (Chicago)	1923 Physics
ROBERT REDFIELD, JR., Ph.B. (Chicago)	1920, J.D. (Ibid.)	1921 Anthropology

- WILLIAM SILAS ROBERTS, A.B. (Piedmont) 1908, A.B. (Harvard) 1908, S.M. (Chicago) 1923 *Chemistry*
 PIETER KORNELIS ROEST (Univ. of Leiden) 1923 *Anthropology*
 TOWNER BOWDITCH ROOT, S.B. (Chicago) 1921, S.M. (Chicago) 1922 *Geology*
 CHARLES WINSTON SAUNDERS, S.B. in Ed. (Univ. of Mo.) 1907, S.M. (Chicago) 1911 *Physiological Chemistry*
 FELIX WADSWORTH SAUNDERS, S.B. (Chicago) 1924 *Physiological Chemistry*
 ALFRED WALTER SIMON, S.B. (Chicago) 1921 *Physics*
 VERNE DONALDSON SNYDER, S.M. (Chicago) 1922 *Chemistry*
 ARTHUR H. STEINHAUS, S.B. (Chicago) 1920 *Physiology*
 ADAH ELIZABETH VERDER, S.B. (Chicago) 1923 *Bacteriology*
 ALBERT HARRY WILSON, S.B. (Earlham) 1916, S.M. (Chicago) 1920 *Botany*
 ROSCOE CONKLING YOUNG, A.B. (William and Mary Coll.) 1910, A.M. (Ibid.) 1910 *Physics*

ELECTED AS ASSOCIATES, NOVEMBER 25, 1924

GRADUATES

- FREDERICK WHIPPLE APPEL *Zoology*
 THADDEUS HOWARD BAKER *Chemistry*
 WILLIAM AUGUSTUS CASTLE *Zoology*
 ERROL NOBLE COADE *Physics*
 JOHN NORRIS CRAWFORD *Physics*
 KENNETH LA DOYT HERTEL *Physics*
 ALISON PUGH HICKSON *Physics*
 JOHN HARLEY HUGHES *Geology*
 KONRAD OLAV LEE *Physics*
 MARION LLEWELLYN POOL *Physics*
 ARTHUR EDWARD REMICK *Chemistry*
 ENID TOWNLEY *Geology*
 HERBERT S. WOLFE *Botany*
 LOUIS EDWIN WORKMAN *Geology*
 JOHN XANTHAPOULOS *Chemistry*

ELECTED TO MEMBERSHIP, FEBRUARY 17, 1925

GRADUATE STUDENTS

- AGUSTIN SIKAT ALONZO, A.B. (Silliman Institute) 1915 *Psychology*

- GUSTAVUS EDWIN ANDERSON, S.B. (Chicago) 1906, A.M. (Columbia) 1907 *Geology*
- JOHN GELDART ASTON, S.B. (California) 1923, S.M. 1924 *Chemistry*
- JAMES PAUL BENNETT, S.B. (Chicago) 1918, S.M. 1922 *Physiol. Chem.*
- ARTHUR GILBERT BILLS, A.B. (Rochester) 1916 *Psychology*
- ANNA BATHSHEBA FISHER, A.B. (California) 1922 *Hygiene and Bact.*
- JOSEPH SOLOMON FRIEDMAN, S.B. (Harvard) 1921 *Chemistry*
- ELBERT DUNG WUI HO, S.B. (Hawaii) 1920, S.M. (Ohio State) 1922 *Chemistry*
- ALBERT ICKSTADT, JR., S.B. (Chicago) 1923, S.M. 1924 *Physiology*
- NORA IDTINGS, S.B. (Purdue) 1918 *Chemistry*
- CLIFFORD ADDISON MERRITT, S.B. (Manitoba) 1922, S.M. 1924 *Geology*
- L. LEONE OYSTER, A.B. (Ripon) 1919, A.B. (Wisconsin) 1920 *Chemistry*
- EUGENE SHERIDAN PERRY, S.B. (Kentucky) 1921, M.S. 1923 *Geology*
- WALBURGA ANNA PETERSEN, S.B. (Chicago) 1923, S.M. 1924 *Zoology*
- HAROLD ROMAINE PHALEN, S.B. (Tufts) 1912, S.M. (Chicago) 1923 *Mathematics*
- THOMAS CHARLES POULTER, S.B. (Iowa Wesleyan) 1923 *Chemistry*
- AGNES ETHEL SHARP, S.B. (Lewis Institute) 1917 *Chemistry*
- JESSE MILTON SHAVER, S.B. (Tennessee) 1915, S.M. (Vanderbilt) 1921 *Zoology*
- HARVEY ALEXANDER SIMMONS, S.B. (Chicago) 1920, S.M. 1923 *Mathematics*
- JOSEPH ADOLPH TUTA, S.B. (Case Sch. Applied Science) 1922 *Physiol. Chem.*
- DELBERT EDMUND WOBBE, S.B. (Iowa Wesleyan) 1923 *Chemistry*

ELECTED AS ASSOCIATES, FEBRUARY 17, 1925

- ROY LEONARD BECKELHYMER *Graduate student in Geology*
- GEORGINE ADOLPH MOERKE *Graduate student in Chemistry*
- ARTHUR BRADLEY SPERRY *Graduate student in Geology*
- OTTO HERMAN WINDT *Undergraduate in Chemistry, Physics*
- GLADYS MAE WOODS *Graduate in Chemistry*

ELECTED TO MEMBERSHIP, MAY 11, 1925

GRADUATES

- WILLIAM HENRY ABBITT, A.B. (Univ. of Virginia) 1919 *Physics*
 THOMAS DYER ALLEN, A.B. (Wisconsin) 1913, M.D. (Rush) 1915
Physiology
 JOYCE ALVIN BEARDEN, A.B. (Furman Univ.) 1921 *Physics*
 ROY LEONARD BECKELHYMER, S.B. (Chicago) 1920 *Geology*
 EUSTACE LINCOLN BENJAMIN, S.B. (Chicago) 1923 *Pathology*
 HENRY FLOYD BECKER, S.B. (Chicago) 1924 *Geography*
 RALPH DECKER BENNETT, S.B. (Union Coll.) 1921, S.M. (Ibid.) 1923
Physics
 ROBERT WESLEY BROWN, S.B. (Chicago) 1911, S.M. (Chicago) 1913
Geology
 KENNETH HEATH COLLINS, S.B. (Univ. of Idaho) *Pharmacology*
 ALBERT EVERETT COOPER, A.B. (Univ. of Texas) 1922, A.M. (Ibid.)
 1923 *Mathematics*
 ZELLA VENUS CREWS, S.B. (Chicago) 1924 *Physiol. Chemistry*
 RUTH ALLEN DOGGETT, S.B. (Chicago) 1924 *Geology*
 EDMUND HENRY DROEGEMUELLER, S.B. (Chicago) 1924 *Physiology*
 ALICE FOSTER, A.B. (Iowa State Teachers College) 1893, S.M. (Chi-
 cago) 1921 *Geography*
 RAYMOND GARVER, A.B. (Montana) 1922, A.B. 1924 *Mathematics*
 KATHERINE BROOKS GUNN, S.B. (Kentucky) 1924
Home Economics
 ONIS HARRIS HORRALL, A.B. (Indiana State Normal), 1923, M.D.
 (Rush Medical) 1919 *Physiology*
 EDMUND JOSEPH JURICA, A.B. (St. Procopius) 1920 *Physiology*
 ARTHUR DAVID KERNS, S.B. (Illinois) 1922 *Physics*
 EARL OSWEL LATIMER, A.B. (Hendrix) 1923 *Physiology*
 ERNEST LLOYD MACKIE, A.B. (North Carolina) 1917, A.M. (Harvard)
 1920 *Mathematics*
 YI-LIN MEI, S.B. (Chicago) 1922 *Pathology*
 WILLIAM WALTER MERRYMON, A.B. (Missouri) 1912, A.M. (Illinois)
 1917 *Physics*
 CLARA MARIE DEMILT, A.B. (Newcomb Coll.) 1911, S.M. (Tulane
 Univ.) 1921 *Chemistry*
 CASPER IRVING NELSON, A.B. (Wisconsin) 1912 *Bacteriology*
 DOROTHY VIRGINIA NIGHTINGALE, S.B. (Missouri) 1922, S.M. (Ibid.)
 1923 *Chemistry*

- FREDERICK STANLEY NOWLAN, A.B. (Acadia Univ.) 1908, A.M. (Harvard) 1909 *Mathematics*
- GUY VERNON RICHEY, S.B. (U. of Cincinnati) 1924 *Geography*
- JENNIE IRENE ROWNTREE, S.B. (Wisconsin) 1918 *Home Economics*
- PHILIP FOGELSOHN SHAPIRO, S.B. (Chicago) 1924 *Physiology*
- HARRY MORRISON SHARP, A.B. (Vanderbilt) 1906, S.M. (Chicago) 1922 *Physics*
- ALFRED WALTER SIMON, S.B. (Chicago) 1921 *Physics*
- ERNST FREDERICK THELIN, A.B. (Marietta) 1914, A.M. (Montana) 1919 *Psychology*
- NORMAN LOUIS THOMAS, S.B. (Ohio State U.) 1920 *Geology*
- CHARLOTTE TRUESDELL, A.B. (Mt. Holyoke) 1921 *Physiology*
- WARREN CORYDON WADE, S.B. (Beloit) 1911 *Physiological Chem.*
- HAKON ADOLF WADELL, Grad. (Univ. of Stockholm) 1912 *Geology*
- MARGARET WARTHIN, A.B. (Michigan) 1923 *Geography*
- JESSIE OPAL WHITACRE, S.B. (Ohio State Univ.) 1915 *Home Economics*
- ALICE CAROLINE WILLARD, A.B. (Knox Coll.), S.M. (Chicago) 1924 *Home Economics*
- HERBERT SNOW WOLFE, A.B. (Park Coll.) 1918, S.M. (Chicago) 1925 *Botany*
- YUI HSUN WOO, S.B. (Chicago) 1922 *Physics*
- JOHN DEMETRIUS XANTHOPOULOS, S.B. (Kalamazoo) 1918, S.M. (Chicago) 1922 *Chemistry*
- ETSUO YURI, M.D. (Medical College in Japan) 1918 *Bacteriology*

ELECTED AS ASSOCIATES, MAY 15, 1925

- LEONARD CARDON *Undergraduate in Chemistry and Physics*
- HENRY NELSON HARKINS *Undergraduate in Chemistry and Physics*
- JOSEPH KALISH *Undergraduate in Chemistry and Physics*
- LOUIS STEVENSON KASSEL *Graduate in Chemistry*
- WILTON MARION KROGMAN *Undergraduate in Anthropology*
- HUI TONG KU *Graduate in Chemistry*
- DAVID LAMBERG *Undergraduate in Chemistry and Bacteriology*
- JOHN THOMAS MCCORMACK *Graduate in Geology*
- ORLANDO PARK *Undergraduate in Zoology and Botany*
- AGNES GRAHAM SANDERS *Graduate in Chemistry*
- CARL JOHAN SANDSTROM *Graduate in Zoology*
- ALBERT NELSON SAYRE *Graduate in Geology*
- CHUCHIA HENRY WANG *Graduate in Botany*

ELECTED TO MEMBERSHIP, AUGUST 18, 1925

FACULTY

RUSSELL AMOS WAUD, S.B. (U. of West. Ontario) 1921, M.D. (Ibid.)
1925 *Physiology*

GRADUATES

DANIEL ROCKMANN BERGSMARK, S.B. (Minn.) 1925 *Geography*
LEAVELVA MYRTLE BRADBURY, Ph.B. (Wisconsin) 1913 *Geography*
JAMES BERNARD CULBERTSON, A.B. (Central Coll., Mo.) 1916, S.M.
(Chicago) 1917 *Chemistry*
BROOKS DANIEL DRAIN, S.B. (Ohio State U.) 1917, S.M. (Chicago)
1925 *Botany*
FRANK GRAHAM FRESE, S.B. (Chicago) 1922 *Chemistry*
WILLIAM GUSTAV FRIEDEMANN, S.B. (Okla. A. & M. Coll.) 1910,
S.M. (Ibid.) 1916 *Chemistry*
PAUL LUTHER GROSS, S.B. (Chicago) 1922 *Chemistry*
VERNON GUY GROVE, A.B. (Olivet Coll.) 1916, A.M. (Kentucky) 1918
Mathematics
REUBEN GILBERT GUSTAVSON, A.B. (U. of Denver) 1916, A.M.
(Ibid.) 1917 *Physiological Chemistry*
CONSTANCE ENDICOTT HARTT, A.B. (Mt. Holyoke) 1922, S.M.
(Chicago) 1924 *Botany*
HARRY COLSON HEATH, S.B. (Cornell Coll.) 1908, S.B. (Chicago)
1908, S.M. (Ibid.) 1922 *Botany*
MOSES ABRAHAM JACOBSON, M.S.A. (Purdue) 1918
Hygiene and Bacteriology
EDNA LOUISE JOHNSON, A.B. (Illinois) 1916, A.M. (Colorado) 1921
Botany
FRANZ JOSEF LANG, M.D. (Univ. of Irmsbruck) 1918 *Anatomy*
MYRTA LISLE MCCLELLAN, S.B. (Chicago) 1913 *Geography*
SISTER MARY ELLEN O'HANLON, S.B. (St. Clara Coll.) 1917, S.M.
(Wisconsin) 1919 *Botany*
LAMBERT NICHOLAS JEAN GASTON POLSPOEL, L.S.C. (U. of Louvain)
1923, L.S.C.C. (Ibid.) 1924 *Geography*
HENRY WILLIAM POPP, S.B. (Penn. State) 1917, S.M. (Ibid.) 1921
Botany
BERNARD PORTIS, S.B. (Chicago) 1918, M.D. (Ibid.) 1920, Ph.D.
(Ibid.) 1923 *Pathology*
IRVINE RUDSDALE POUNDER, A.B. (Toronto) 1912, A.M. (Ibid.) 1914
Mathematics

JOSEPH BANKS RHINE, S.B. (Chicago) 1922, S.M. (Ibid.) 1923

Botany

JAMES WALLACE SHAW, A.B. (Kansas) 1920

Physiology

ODEN ELBRIDGE SHEPPARD, A.B. (Missouri) 1912, A.M. (Ibid.) 1914

Chemistry

ROBERT CLIFTON SPANGLER, A.B. (West Virginia) 1912, A.M. (Ibid.) 1916

Botany

ANDREW Z. STAUFFER, S.B. (Ohio State) 1919, S.M. (Ibid.) 1925

Botany

CHUCHIA HENRY WANG, A.M. (U. of Soochow) 1922, S.M. (Chicago) 1925

Botany

HUGH ALLEN WYCKOFF, S.B. (Missouri Wesleyan) 1921

Hygiene and Bacteriology Groups of Bacteria

ASSOCIATES

GRADUATES

MADISON DERRELL CODY

Botany

CHARLOTTE DELL EASTON

Botany

AUGUST GEORGE KOENIG

Chemistry

HUBERT WHATLEY MARLOW

Chemistry

JUN MING PAN

Chemistry

CURTIS RANDOLPH SINGLETERRY

Chemistry

ESMOND R. LONG, *Secretary*

NORTH CAROLINA

Meetings were held as follows:

April 3, 1925. Dr. Edwin Greenlaw, Dean of the Graduate School, presented a paper describing his studies of ancient (middle ages) scientific writings.

May 8, 1925. Lecture by Dr. J. J. Abel.

May 18 and 19, 1925. The Annual Sigma Xi Lectures were delivered by Dr. John J. Abel of Johns Hopkins University on "The Importance of the Apparently Negligible in Biology and Medicine." Dr. Abel's lectures, which were illustrated by diagrams and lantern slides, dealt principally with the products of the organs of internal secretions, especially the thyroid, pituitary and other glands, and their effects upon the body.

June 3, 1925. Annual meeting of the Chapter. Members and Associates were elected as follows:

MEMBERS

GEORGE L. CARRINGTON of Durham
 HAYWOOD M. TAYLOR of Chapel Hill
 JOEL H. SWARTZ of Chapel Hill
 J. N. COUCH of Chapel Hill
 E. V. KYSER of Chapel Hill

ASSOCIATES

T. T. WALKER	Chemistry
R. M. BYRD	Chemistry
G. M. MURPHY	Chemistry
J. V. HARVEY	Chemistry

June 8, 1925. Commencement meeting of the Chapter.

Dr. J. B. Murphy, of the Rockefeller Institute for Medical Research, gave a most interesting account of his studies on cancer.

Officers for the following year were elected as follows:

<i>President</i>	DR. H. V. WILSON
<i>Vice-President</i>	DR. W. F. PROUTY
<i>Secretary-Treasurer</i>	THORNDIKE SAVILLE
<i>Member of Executive Committee</i>	OTTO STUHLMAN, JR.
	THORNDIKE SAVILLE, <i>Secretary</i>

COLORADO

Meetings were held and papers given as follows:

October 23, 1924. "Bees of the Philippine Islands," Miss Norma LeVeque. "Dragon-flies of Boulder and Vicinity," Howard Day. "Color Photography of Flowers," Paul Shope. "Natural History of the Pacific Islands," Prof. T. D. A. Cockerell.

December 4, 1924. "Analysis of Speech Sounds," Prof. Karl F. Muenzinger. "Lapses Influenced by Similarity," Prof. L. W. Cole.

January 15, 1925. "Two of the World's Greatest Bridges," Prof. C. L. Eckel. "Stress Measurements by Polarized Light," Prof. H. J. Gilkey.

February 11, 1925. "X-Rays," Dean O. C. Lester. "Maze and the Learning Process," Prof. Karl F. Muenzinger.

April 23, 1925. "Microscopy of Polished Ore Samples," Russell Gibson. "Pottery," Albert N. Murray.

May 21, 1925. "Incentives for Research," Prof. T. D. A. Cocker-

CHAPTER REPORTS

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ell. "Rocky Mountain Spotted Fever," Frederick Becker. "Pol-
len," Maxy Pope.

MEMBERS ELECTED FEBRUARY 11, 1925

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ELMER O. BERGMAN	BERT H. LINCOLN
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HOWARD DAY	JANIE C. MOORE
W. E. DEMING	OSCAR B. MUENCH
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RAYMOND HARDESTY	ROY E. RODOCK
E. R. JONES	D. K. SHEN
O. C. LESTER, JR.	MARIAN STILWELL

MEMBERS ELECTED MAY 21, 1925

FREDERICK E. BECKER	WALTER NELSON
FRANK EASTON	

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JOHN I. BOGGS	H. M. RICHARDSON
GLADYS FREDERICKS	BERNARD B. SLATOR
INEZ HAM	H. B. STEVENSON
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STANFORD

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ELIOT BLACKWELDER	WILLIAM R. ECHART
LEWIS R. TERMAN	

MEETINGS

The following lectures were in part supported by the Society and were well attended by members:

Dr. A. S. Eddington, Plumian Professor of Astronomy, Cambridge, on "The Interior of a Star," November 4, 1924.

Dr. C. V. Ramon, Professor of Physics, University of Calcutta, on "Light Scattering and Its Relation to Atomic and Molecular Structure," January 8, 1925.

Dr. Jacques Hadamard, Professor of Analytical Mechanics, College de France, Paris, on "Huygen's Principle," May 20-23, 1925.

The first regular annual meeting was held May 28, 1925, at which 52 new members chosen by the Board of Electors were duly declared elected. Four of these were from the faculty. A special meeting was called June 8th for the election of another faculty member.

The last regular meeting (72nd Meeting of the Stanford Chapter) was held June 9, 1925. The address was delivered by Professor Alexander Findlay of the University of Aberdeen, who gave a very stimulating talk on the scientific spirit in research.

MEMBERS ELECTED FROM THE FACULTY

BAKHUYZEN, HENDRIK LEO VAN DE SANDE, Ph.D., Utrecht, 1919
Research Assistant, Food Research Institute, University Park, Palo Alto, California

FINDLAY, ALEXANDER, *Visiting Professor of Chemistry, Professor of Chemistry*, University of Aberdeen, Aberdeen, Scotland

JACOBSEN, LYDIK SIEGUMFELDT, A.B., Stanford, 1921, *Mech. Eng. Instructor in Mechanical Engineering*, Stanford University, California

SHEVKY, ESHREF, Ph.D., Stanford, 1922, *Pathology, Research Assistant*, Department of Pathology, Stanford Medical School, San Francisco, Calif.

TAINTER, MAURICE LANE, A.B., Stanford, 1921; A.M., 1924; M.D., 1925. *Instructor in Pharmacology*, Stanford Medical School, San Francisco, Calif.

ASSOCIATES ELECTED FROM GRADUATE STUDENTS AND SENIORS

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|--|-------------------------------|
| AGUERREVERE, SANTIAGO EMIGDIO, Senior | <i>Geology</i> |
| ALLRED, WILLIAM LYLE, A.B., Brigham Young, 1909 | <i>Physics</i> |
| BACIGALUPI, RIMO, A.B., Stanford, 1923; A.M. 1925 | <i>Botany</i> |
| BENSON, GILBERT THERON, A.B., Stanford, 1923 | <i>Botany</i> |
| BROLYER, CECIL ROBERT, A.B., Stanford, 1923 | <i>Psychology</i> |
| BROWN, KENNETH WILLIAM, A.B., Stanford, 1924 | <i>Chemistry</i> |
| BURGESS, DOROTHY GRACE, B.S., Montana State Coll., 1923 | <i>Botany</i> |
| BURKS, DANA, A.B., Stanford; A.M. 1925 | <i>Chemistry</i> |
| COBE, HERBERT M., A.B., Michigan, 1923 | <i>Anatomy</i> |
| COWDERY, KARL MONTAGUE, A.B., Oberlin, 1915; A.M., Stanford, 1922 | <i>Psychology</i> |
| CREGLOW, LORAN ANDREW, A.B., Stanford, 1922 | <i>Mining and Metallurgy</i> |
| ENGLE, EARL THERON, A.B., Nebraska Wesleyan, 1921 | <i>Anatomy</i> |
| GRISWOLD, GALE CHARLES, A.B., Stanford, 1925 | <i>Chemistry</i> |
| HARGER, DONALD K., A.B., Stanford, 1925 | <i>Chemistry</i> |
| HESSSELMAYER, CLARENCE T., A.B., Stanford, 1924 | <i>Electrical Engineering</i> |
| HESTHAL, CEDRIC EDWARD, A.B., Stanford, 1925 | <i>Physics</i> |
| HIPPARD, HARRIET AMANDA, A.B., Western Reserve, 1924 | <i>Chemistry</i> |
| HUFFMAN, HUGH MARTIN, Senior | <i>Chemistry</i> |
| HOLBROOK, BERNARD D., A.B., Stanford, 1924 | <i>Physics</i> |
| HOWARD, EVELYN, A.B., Stanford, 1925 | <i>Anatomy</i> |
| JOHANSEN, DONALD ALEXANDER, Senior | <i>Botany</i> |
| KOEPFLI, JOSEPH BLAKE, A.B., Stanford, 1924 | <i>Chemistry</i> |
| KOSTKO, JAROSLAW K., E.E., Institute of Electrotechnics, Paris, 1909 | <i>Electrical Engineering</i> |
| LITTON, CHARLES VINCENT, A.B., Stanford, 1924 | <i>Electrical Engineering</i> |
| LYNN, HAROLD FREDERIC, A.B., Stanford, 1923 | <i>Geology</i> |
| MAGARIAN, CHARLES MASICK, B.S., Mass. Inst. Tech., 1923 | <i>Physics</i> |

MAILLOT, ELMER ELLSWORTH, A.B., Stanford, 1923	
	<i>Mining and Metallurgy</i>
MATHES, MARY E., A.B., University of Oregon, 1920	
	<i>Bacteriology and Experimental Pathology</i>
MATSON, THEODORE MALVIN, A.B., Stanford, 1923	
	<i>Electrical Engineering</i>
MCCULLOUGH, MARGERY S., A.B., Mills, 1924; A.M., Stanford, 1925	
	<i>Pathology</i>
MILLAR, HENRY LLOYD, Senior	<i>Mining and Metallurgy</i>
NELSON, WILLIAM KENNETH, A.B., Stanford, 1924	<i>Chemistry</i>
PATEK, SADIE D., A.B., Stanford, 1911	<i>Anatomy</i>
PEET, ROBERT BARFE, A.B., Stanford, 1924	<i>Chemistry</i>
ROYDEN, GEORGE TAYLOR, A.B., Stanford, 1927	
	<i>Electrical Engineering</i>
SCOFIELD, PHILIP FOREST, A.B., Stanford, 1924	
	<i>Electrical Engineering</i>
SNOW, WILLIAM BORING, A.B. Stanford, 1923	
	<i>Electrical Engineering</i>
STONE, JOHN BEAR, A.B., Stanford, 1924	<i>Chemistry</i>
STARKS, DOROTHY JOHANNA, A.B., Stanford, 1924	<i>Anatomy</i>
TANNER, VASCO MYRON, A.M., Utah, 1920	<i>Anatomy</i>
TIMPANY, CHARLES RUSSELL, A.B., Stanford, 1924	<i>Chemistry</i>
WEISS, MARIE J., Senior	<i>Mathematics</i>
WHITCOMB, THAYER WARDELL, A.B., Stanford, 1924	<i>Chemistry</i>
WIGGINS, IRA LORAN, A.B., Occidental, 1922	<i>Botany</i>
WILBUR, PAUL CURTIS, A.B., Stanford University, 1924	<i>Chemistry</i>
WILLIAMS, FLETA HAZEL, A.B., Stanford, 1920	<i>Chemistry</i>
WILLOUGHBY, RAYMOND ROYCE, B.S., Mass. Agric. Coll., 1918; A.M., Stanford, 1923	<i>Psychology</i>
WONG, HUNG CHAU, A.B., Stanford, 1925	<i>Chemistry</i>

WORCESTER

There have been held four meetings, with an average attendance of thirty.

There were initiated eight members and eight associates.

Of the members, two were from the Faculty, one a graduate student and five from the Senior class.

All associates were undergraduates.

The following officers have been elected for the coming year:

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Vice-President
Secretary
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PROF. H. J. GAY
PROF. G. H. MACCULLOUGH
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CONTRIBUTORS TO THE ALUMNI FUND

Name	Chapter	Address
Altshuler, H. I.	California	San Francisco, Calif.
Ball, E. D.	Ohio	Sanford, Florida
Beckmann, F. Woods	Yale	Altoona, Pa.
Famulener, L. W.	Michigan	New York, N. Y.
Gibbs, Lawrence B.	Rensselaer	So. Pasadena, Calif.
Inouye, James M.	Columbia	New York, N. Y.
MacQuarrie, T. W.	Stanford	Los Angeles, Calif.
McCurdy, Ralph G.	California	New York, N. Y.
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The national secretary is prepared to supply keys at reasonable rates. Information will be sent on request.

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The General Convention has instructed the Secretary to forward to chapters under the following stipulations:

Membership Certificates, stamped with the great seal of the Society. In packages of fifty prepaid, on advance payment of \$2.50 for each package. Please specify carefully whether for active or associate members.

Index Cards, provided a duplicate set be sent for the general index of the Society maintained in the secretary's office. Gratis.

Chapter Secretaries are requested to fill out these cards carefully giving **PERMANENT** addresses of the members, and return to the National Secretary.

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Chapter secretaries are requested to furnish a correct list of mailing addresses of active members for the printer. Blank forms, gratis on demand.

The mailing list should be sent early in **SEPTEMBER** and be valid for the academic year. All changes of address and all other correspondence should be addressed to the Secretary of Sigma Xi, Edward Ellery, Union College, Schenectady, N. Y.

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